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No. 17] NEW DELHI, SATURDAY, APRIL 25, 1987 (VAISAKHA 5, 1909)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 25th April 1987

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CORRIGENDUM

In the Gazette of India Part III Section-2 dated 31st January, 1987 under the heading "Complete Specification accepted".

In page 86 Column 1 against No. 158831.

For Application No. 17/Bom/1985.

Read Application No. 127/Bom/1985.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

214, ACHARYA JAGADISH BOSE ROAD
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 17th March 1987

214/Cal/87. Volgo-Uralsky Nauchno-Issledovatel'sky I Proektny Institut Po Dobyche I Pererabotke Serovodorod-Soderzhaschikh Gazov (Volgourafnigaz). Method for biological purification of sewage from diethanolamine.

The 18th March 1987

215/Cal/87. N. V. Philips' Gloeilampenfabriken. Colour display tube.

216/Cal/87. IEL Limited. An improved process for the preparation of fatty alcohols from organic acid esters by catalytic hydrogenation.

217/Cal/87. Merck Patent Gesellschaft Mit Beschränkter Haftung. Nacreous pigments.

218/Cal/87. Ems-Inventa AG. Apparatus for cooling and conditioning melt-spun material. [Addition to number 644/Cal/86].

219/Cal/87. Clarence Sexton Freeman and Katherine Mouton Freeman. Cable maintenance apparatus and method.

The 19th March 1987

220/Cal/87. American Hoechst Corporation. Water-soluble yellow monoazo dyestuff mixtures and their use for dyeing carbonamide and/or hydroxy groups containing materials.

221/Cal/87. Armo Inc. Hot dip aluminum coated chromium alloy steel.

The 20th March 1987

222/Cal/87. Zabrazanskije Gwarectwo Weglowe, Kopalnia Wegla Kamiennego "Zabrazze-Bielszowice". Skip hoisting system.

223/Cal/87. Du Pont Canada Inc. Solution Process for the preparation of polymers of alpha-olefins. (Convention date 5th July, 1983) U.K. [Divisional date 18th June, 1984].

224/Cal/87. Degussa Aktiengesellschaft. A detergent bar.

225/Cal/87. Siemens Aktiengesellschaft. Methods of and devices for the adjustment of electrical filters.

226/Cal/87. Sulzer Brothers Limited. A weft yarn store for a loom.

227/Cal/87. Christian A. Wittke. Illuminated characters or graphic symbols for external fixing to vehicles.

APPLICATION FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH

MUNICIPAL MARKET BUILDING, THIRD FLOOR
KAROL BAGH, NEW DELHI-5

The 23rd February 1987

152/Del/87. Vivek Mull & Shree Krishnakshav Laboratories Ltd., "A pediatric urinary collection bag".

153/Del/87. Colgate-palmolive Company, "Solid antitartar mouth deodorant composition".

154/Del/87. Ashland Oil Inc., "Tin or bismuth complex catalysts and trigger cure of coatings therewith."

155/Del/87. The Halcon SD Group, Inc., "Process for preparing silver catalysts".

The 24th February 1987

156/Del/87. Aktiebolaget Draco, "Device in powder inhalators".

157/Del/87. Felipe Salete, "Process for the obtention of high purity mucilage from plantago psyllium seeds".

158/Del/87. Dyna Products AB, "An arrangement in wind driven reciprocating compressors for compressible media".

159/Del/87. Cimsa Sintra, "Method and device for the transmission of digital data by messages organized in France".

160/Del/87. Telefonaktiebolaget LM Ericsson, "Apparatus in cathode ray tubes for reducing the magnetic field strength in the tube environment".

161/Del/87. Allied Corporation, "Proportioning brake valve with dual area secondary piston".

162/Del/87. Shell Oil Company, "Preparation of olefin polymerization catalyst component".

The 25th February 1987

163/Del/87. Rockwell International Corporation, "Modified fade drive axle housing".

164/Del/87. Imperial Chemical Industries Plc., "Solid explosive composition". (Convention date 14th March, 1986, U. K.).

165/Del/87. GKN Technology Limited, "Leaf springs of composite material". (Convention date 13th March, 1986, U. K.).

166/Del/87. Sylsands Securities (Proprietary) Limited, "Interlocking construction block".

167/Del/87. The Goodyear Tire & Rubber Company, "Reinforced composite structure".

168/Del/87. Bendix Limited, "Reciprocating machine".

169/Del/87. Kollmorgen Technologies Corporation, "Molded metallized plastic articles and processes for making the same".

The 26th February 1987

170/Del/87. Shell Internationale Research Maatschappij B. V., "Process for the carbonylation of olefinically unsaturated compounds with palladium catalyst". (Convention date 28th February, 1986, U. K.).

171/Del/87. PPG Industries, Inc., "Burner design for melting glass batch and the like".

172/Del/87. BICC Public Limited Company, "Optical Cable". (Convention date 28th February, 1986, U. K.).

173/Del/87. Fabcon Incorporated, "Process for flocculating and clarifying a solid-liquid slurry".

[Divisional date 1st October, 1984].

174/Del/87. Vivek Mull and Shree Krishnadeshav Laboratories Ltd., "A device for inspecting the anus".

The 27th February 1987

175/Del/87. Euroceltique S.A., "Contraceptive composition". (Convention date 12th March, 1986 and 26th March, 1986, U. K.).

176/Del/87. Michael Smetacek, "A self-level seeking tamper-proof activating device for activating alarm circuits".

The 2nd March 1987

177/Del/87. Alsthom, "A system for providing assistance in assembly operations with self-checking".

178/Del/87. General Fodos Corporation, "A method of hydrolyzing a coffee extraction residue material to produce mannan oligomers". [Divisional date 25th September, 1984].

179/Del/87. B. M. D. Limited, "Improvements in cutting machines". (Convention date 4th March, 1986, U. K.).

The 3rd March 1987

180 /Del/87. UOP Inc., "Olefin hydrogenation method for adsorptive separation process feedstreams".

181/Del/87. Stein Industrie, "A device for fixing a perforated sheet against the perforated tube plate of a heat exchanger".

182/Del/87. The Gillette Company, "Thermophotovoltaic system".

183/Del/87. Andrei Fedoseevich Ivanchenko and others, "Drum switch".

184/Del/87. Westinghouse Brake and Signal Company Limited, "Variable load braking systems". (Convention date 24th April, 1986, U.K.).

185/Del/87. Erno Raumfahrttechnik GmbH, "Assembly of large structures".

The 4th March 1987

186/Del/87. Shell Internationale Research Maatschappij B. V., "Process for the preparation of carbonyl compounds". (Convention date 6th March, 1986, U. K.).

187/Del/87. Colgate-Palmolive Company, "Higher Fatty alcohol sulfate-alpha-higher fatty acid methyl ester detergent laundry bars".

188/Del/87. Colgate-Palmolive Company, "Breakage resistant higher fatty alcohol sulfate detergent laundry bars".

189/Del/87. Colgate-Palmolive Company, "Alpha-sulfo-fatty acid ester and/or amide salt(s) detergent laundry bars and processes for manufacture thereof".

190/Del/87. Colgate-Palmolive Company, "Alpha-sulfo-higher fatty acid-lower alcohol ester and amide-based detergent laundry bars and process for manufacture thereof".

191/Del/87. Colgate-Palmolive Company, "Alkyl ethoxylate sulfate detergent laundry bars and processes for manufacture thereof".

192/Del/87. Colgate-Palmolive Company, "Higher fatty alcohol sulfate-higher fatty alcohol ethoxylate sulfate detergent laundry bars and process for manufacture thereof".

193/Del/87. Bendix Limited, "Gas compressors". (Convention date 14th March, 1986, U. K.).

The 5th March 1987

194/Del/87. Council of Scientific and Industrial Research, "A device for introducing air blast into a cupola".

195/Del/87. Lam Heng beng, "Improvements in or relating to pile driving". (Convention date 7th March, 1986 and 13th October, 1986, U. K.).

196/Del/87. Allied Corporation, "Fiber reinforced composites and method for their manufacture".

197/Del/87. Ponnt-A. Mousson S.A., "Device for joining pipes comprising a male and a socket".

198/Del/87. Societe Nationale D'Etude Et De Construction De Moteurs D'Aviation "S.N.E.C.M.A.", "Process for the preparation of ceramic cores".

The 6th March 1987

199/Del/87. The Babcock & Wilcox Company, "Automatic system for sequential control and fault detection of devices used in batch processes".

200/Del/87. The Babcock & Wilcox Company, "Detector for measuring free oxygen in a combustible atmosphere".

201/Del/87. Werkzeugmaschinenfabrik Oerlikon-Bührle AG, "Arrangement for a power supply unit on a transportable gun".

202/Del/87. Werkzeugmaschinenfabrik Oerlikon-Bührle AG, "Apparatus for conformal transfer of the cradle movement of a firearm to the direction collimator".

203/Del/87. Werkzeugmaschinenfabrik Oerlikon-Bührle AG., "Ammunition-feed on an automatic firearm".

204/Del/87. The General Electric Company, P.L.C., "Ring-ing circuit". (Convention date 12th March, 1986, U. K.).

205/Del/87. Bhushan Lal Mittal, "A mill for crushing of sugarcane".

206/Del/87. Bhushan Lal Mittal, "A mill for crushing of sugarcane".

APPLICATION FOR PATENTS FILING AT FOR PATENT OFFICE BRANCH 61, WALLAJAH ROAD, MADRAS-600 002

The 2nd March 1987

140/Mas/87. Caterpillar Inc., Track shoe Deflection Limiter for Endless Track Assemblies. (23rd September 1986, Canada).

141/Mas/87. Caterpillar Inc., "Bulldozer Blade Mounting and Stabilizing Arrangements. (September 23rd, 1986, Canada).

The 3rd March 1987

142/Mas/87. Sambandam Sekaran, A Rack.

143/Mas/87. Sambandam Sekaran, A Bedstead.

144/Mas/87. Yelakanti Mohan Rao, A Teaching Apparatus for Providing Training in Copying Graphic matter.

145/Mas/87. Lucas Industries Public Limited Company,
A Wedge and Roller Brake Actuator.
(March 5th, 1986, U. K.).

146/Mas/87. CIBA-GEIGY AG, Detection of Fungi.

147/Mas/87. Rank Taylor Hobson Limited, Metrological
Apparatus.
(March 4th, 1986, U. K.).

148/Mas/87. Rank Taylor Hobson Limited, Workpiece
Position Control.
(March 4th, 1986, U. K.).

149/Mas/87. Schubert and Salzer Maschinenfabrik Aktien-
gesellschaft, A method and device for servicing
the work stations of spinning or twisting
machines, using a number of servicing devices
movable along the work stations.

The 4th March 1987

150/Mas/87. Raman Pillai Hari Gopal, "Gasafe" Domestic
Gas Cylinder Safety Valve.

151/Mas/87. A. Ahlstrom Corporation, Circulating Fluidiz-
ed Bed Reactor.
(September 9th, 1986, Canada).

152/Mas/87. Haung, Kin-Shen, and Stone H. C. Tseng,
Beverage can coiling Device.

153/Mas/87. Fred. Olsen, Floating Platform Structure.

The 5th March 1987

154/Mas/87. Lucas Industries Public Limited Company,
"Improvements relating to deceleration control-
lers".
(March 7th, 1986, U. K.).

155/Mas/87. Istvan Zvolesnszky, Graden-Type Shower With
Sun-Collector and Combined Tap.

156/Mas/87. Davy McKee (Stockton) Limited, Vessel
Support Arrangement.
(March 5th, 1986, British).

The 6th March 1987

157/Mas/87. The Dow Chemical Company, Nozzle.

158/Mas/87. The Dow Chemical Company, Nozzle.

ALTERATION OF DATE

159280. }
(76/Del/83). } Antc dated to 29th May, 1979.

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 15-C, D & E.

159260

Int. Cl. : F 16 c 33/00,

F 16 c 33/46.

CAGE OF PLASTICS MATERIAL FOR A CONICAL ROLLING BEARING.

Applicant : ROULEMENTS NADELLA S.A., OF 16
ROUTE DE FOECY 18101 VIERZON, FRANCE.

Inventor : 1. BERNARD MALLET.

Application No. 185/Cal/83 filed February 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A cage of plastics material for a conical rolling bearing comprising a body of frustoconical shape provided with cavities for receiving rolling elements, said cavities being formed at even distances apart in the lateral surface of said body, wherein each cavity for receiving a rolling element is provided with projecting portions which are for retaining the rolling element in the cavity and extend inwardly of the cavity and are moulded in one piece with the cage.

Compl. Specn. 13 pages.

Drgs 3 sheets.

CLASS : 172-C₁, 5, 9°

159261

Int. Cl. : D 01 g 7/00,

D 01 g 9/00.

SUCTION DUCT FOR TEXTILE MACHINES.

Applicant : SCHUBERT & SALZER MASCHINEN-
FABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-
EBERT-STRASSE 84,8070, INGOLSTADT, WEST GER-
MANY.

Inventor : 1. GEORG GOLDAMMER.

Application No. 218/Cal/83 filed February 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A suction duct for textile machines, particularly for a bale opener, comprising a stationary connecting opening and a mobile connecting opening which is arranged in one longitudinal side of the suction duct and is part of an elongated slot which can be closed by a flexible cover band, one end of which is secured in a stationary manner, characterised in that the other end of the cover band is secured to a winding-on roller mounted on a carriage which can be moved along the suction duct.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 172-D, °

159262

CLASS : 172-B.

159264.

Int. Cl. : D 01 h 7/74.

Int. Cl. : D 01 d 11/00.

SEPARATION DEVICE FOR AN OPEN-END SPINNING APPARATUS WITH A HOUSING.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT OF FRIEDRICH-EBERT-STRASSE 84,8070, INGOLSTADT, GERMANY.

Inventors : 1. EBERHARD HOFMANN, 2. GOTTFRIED SCHNEIDER, 3. JOHANN POHN.

Application No. 245/Cal/83 filed February 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

Separation device for an open-end spinning apparatus with a housing, in the interior of which a separation roller and an insert accommodating the separation roller are arranged, the insert comprising openings which are enclosed on all sides and correspond to housing openings connecting the interior with other parts of the spinning apparatus characterised in that the insert (3) is cup-shaped with a recess (35) in the base (34), which recess (35) opens into a bearing bore (18) supporting the separation roller, a fixing device securing the position of the insert (3) relative to the housing being associated with the insert (3);

Compl Specn. 34 pages.

Drgs 2 sheets.

CLASS : 70-A + 130-D + 139-C.

159263

Int. Cl. : B 01 k 3/00, C 01 b 7/06 &

C 22 b 45/00.

APPARATUS AND METHOD FOR ELECTROLYSIS OF MgCl₂.

Applicant & Inventor : HIROSHI ISHIZUKA, OF 19-2, EBARA 6-CHOME, SHINAGAWAKU, TOKYO, JAPAN.

Application No. 279/Cal/83 filed March 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

An apparatus for electrolysis of MgCl₂, comprising an airtightly sealed metallic shell exhibiting in horizontal cross section a rounded profile which comprises at four portions a curve selected from a quarter-circular arc and a quarter-elliptical arc, a measure for forcibly cooling said shell from outside, a wall structure which consists of an insulative refractory of a decreased thickness and which is provided along said shell, an electrolysis chamber defined by said wall structure and a pair of primary partitions extending in parallel with each other across the wall structure, a separation chamber for stripping magnesium metal from electrolytic bath provided in adjacency with the electrolysis chamber, at least one pair of anode and cathode arranged in the electrolysis chamber, at least one bipolar intermediate electrode arranged between the anode and cathode, and a top cover provided air-tightly over the electrolysis chamber and the separation chamber, thus allowing as a whole an electrolytic operation at a substantially regulated bath temperature with an increased number of electrodes contained.

Compl. Specn. 19 pages.

Drgs. 2 sheets.

DEVICE FOR CUTTING A FIBER SLIVER.

Applicant : MASCHINENFABRIK RIETER AG, OF WINTERTHUR, SWITZERLAND.

Inventor : 1. PETER OEHY.

Application No. : 322/Cal/83 filed March 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Device for cutting a fiber sliver delivered from a fiber sliver channel of a coiler guide wheel in a can filling station with a can removal device, the fiber sliver being cut between the exit of the fiber sliver channel and a shifted filled can, said device being supported on a travelling frame, characterized in that the said device is provided with a sliver separator (23) and means for moving said sliver separator (23) below and across said coiler guide wheel (3), said sliver separator (23) comprising a holder (24) and a sliding separator element (25) fixedly secured thereto, said holder (24) being provided with a socket portion (26), and said means for moving said sliver separator (23) comprising an arm (9) which supports said sliver separator (23) at one end and which is pivotally mounted on said travelling frame (8) at the opposite end, said socket portion (26) together with a pin (27) serving for the pivotal connection of said sliver separator (23) with said arm (9).

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 102-B & 134-B.

159265

Int. Cl. : F 15 b 15/00.

A HYDRAULIC CONTROL SYSTEM FOR POWER TRANSMISSION.

Applicant : VICKERS, INCORPORATED, OF 1401 CROOKS ROAD TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventors : 1. HENRY DELANO TAYLOR, 2. VINOD KUMAR NANDA.

Application No. 327/Cal/83 filed March 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A hydraulic control system comprising a hydraulic actuator (20, 56, 70) having opposed openings adapted to alternately function as inlets and outlets for moving the element of the actuator in opposite directions,

a pump (22) for supplying fluid for said actuator,

meter-in valve means (27) to which the fluid from the pump is supplied, for selectively metering fluid to one or the other of said openings to control the direction of movement of the actuator (20),

said meter-in valve means (27) being pilot controlled by alternately applying fluid at pilot pressure to opposed ends of said meter-in valve means,

a pair of lines (32, 33) extending from said meter-in valve means to said respective openings of said actuator,

meter-out valve means (34) associated with at least one opening of the actuator (20) for controlling the flow out of said actuator (20),

said meter-out valve means (34) being pilot operated by the pilot pressure applied to said meter-in valve means, the improvement comprising.

means (47) for sensing the output pressure from the meter-in valve means (27) being directed to the actuator when said meter-in valve means is operated on one direction,

said sensing means also providing a pressure in said meter-in valve means (27) opposing the pilot pressure tending to actuate the meter-in valve means in said one direction,

means for controlling an overhauling load when fluid is being directed to one of said openings of actuator,

said controlling means including means operable to retard movement of said actuator (20) and including a line extending from said line (32) supplying fluid to said actuator and the pressure of fluid being supplied by said meter-in valve means (27) to said one opening of said actuator (20) and providing a pressure to said meter-in valve means (27) opposing the pilot pressure tending to actuate the meter-in valve means (27) in a direction to supply fluid to said one end of said actuator (20) such that in an overhauling load mode, the pressure of fluid to said one opening is reduced tending to actuate said means (47) operable to retard movement of the actuator and the pressure of fluid being supplied to said meter-in valve means (27) is reduced permitting the pilot pressure to open the meter-in valve means (27) to a greater degree permitting more fluid to flow to said one opening of said actuator (20) and increasing the pressure of fluid to said controlling means (49).

Compl. Specn. 19 pages.

Drgs. 5 sheets.

CLASS : 69-I.

159266

Int. Cl. : H 01 h 13/00.

A VACUUM SWITCH.

Applicant : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. GERHARD PECHE, 2. GUNTER BIAL-KOWSKI.

Application No. 379/Cal/83 filed March 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A vacuum switch comprising a movable contact aligned in the direction of movement with a stationary contact the stationary contact being supported by one end of a stud bolt extending longitudinally within a ceramic tube housing, the stud bolt being connected adjacent its other end via a concentrically arranged coupling to the ceramic tube housings so that the latter is resiliently supported in a vacuum-tight manner relative to the stud bolt, the coupling comprising an elastically deformable ring connected to the ceramic tube housing via an adjoining cylindrical wall and a soldered flange which is hard-soldered to the ceramic tube housing, the modulus of elasticity of the coupling being selected to be such that in the event of axial or radial pressure upon the ceramic tube housing the coupling is elastically deformed, so as to avoid the occurrence of forces sufficient to break the ceramic tube or the solder connection.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

CLASS : 159-E, F, G, J.

159267

Int. Cl. : B 61 1 25/00, 29/00.

TOTAL SECURITY TIME-DELAY CIRCUIT.

Applicant : JEUMONT-SCHNEIDER, OF 31-32, QUAI DE BION BOUTON, 92811 PUTEAUX CEDEX, FRANCE.

Inventor : 1. ETIENNE CAMUS.

Application No. 390/Cal/83 filed April 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A total security time-deay circuit furnishing a series of pulses, with the initial pulse being delayed by a minimum period of time established in response to a direct voltage level maintained at the input, with said circuit consisting of a pulse generator (1) which, upon establishment of said voltage level at the input terminal, provides pulses which control operation of a contact breaker (3) which is series-connected within a circuit including a capacitor (4) which is series-connected to the primary winding (5) of a transformer whereby the signal received at the terminals of the secondary winding (6) of the transformer controls operation of another contact breaker (7) so as to provide a threshold, the aforementioned circuit being characterized by the fact that, in as much as the second contact breaker (7) is series-connected to one end of a resistor (8) and a ground-connected Zener diode (9), with the other end of said resistor being connected to the input terminal of the previously cited pulse generator (1), the afore-mentioned capacitor (4) can be charged by means of another resistor (10), with one end of said resistor being connected to the input terminal of the pulse generator (1) while the other end of the resistor is connected to the junction point (11) of the second contact breaker (7) and the Zener diode (9), the junction point (11) being connected to the junction point for the primary winding (5) and the capacitor (4) by means of a third resistor (12), with delayed pulses being received at the first end of the first resistor (8) cited heretofore.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 158-C, D, B_a.

159268

Int. Cl. : B 61 g 1/00; 3/00 & 5/00.

SLACKLESS RAILWAY DRAWBAR COUPLER ARRANGEMENT.

Applicant : AMSTED INDUSTRIES INCORPORATED OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, U.S.A.

Inventors : 1. RUSSELL GEORGE ALTHERR, 2. JOHN WALTER KAIM.

Application No. 394/Cal/83 filed April 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A slackless railway drawbar coupler arrangement comprising a drawbar, received within a pocket beneath a railway car and characterized in that said drawbar comprises an elongated shank portion and a vertically and horizontally convex butt surface at an end thereof :

said drawbar further having near one end thereof a slot extending horizontally through the shank portion, said slot having an upper surface and lower surface each having a forward portion of which diverges away from the longitudinal centerline of the drawbar, a bar shaped key extending horizontally through said slot and pocket, and a bearing block between said key and the rear inner concave surface of the drawbar slot,

a follower block having a vertically an horizontally concave front surface abutting the convex butt end of the drawbar and a generally flat rear surface, wedge shaped shim, within said pocket which pocket is generally rectangular having two side walls, a bottom wall, a top wall and a generally flat interior rear surface, the flat surface of the follower block and of the pocket diverging upwardly, said follower block having a bottom surface resting on the bottom wall of said pocket to keep the concave front surface of the follower block vertically symmetrical with the drawbar slot,

said wedge shaped shim fitting between the flat interior rear surface of the pocket and the flat rear surface of the follower block such that by the gravity induced downward force of said shim, said drawbar butt end maintains butted contact with the front surface of the follower block, and the bearing block maintains contact with the inner concave surface of the drawbar slot and the key.

Compl. Specn. 11 pages.

Drgs. 3 sheets.

CLASS : 172-D₃, 4, & 5.

159269

Int. Cl. : D 01 h 7/00,

D 01 h 7/74.

OPEN-END SPINNING ROTOR.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070, INGOLSTADT, GERMANY.

Inventor : 1. RUDOLF OEXLER.

Application No. 397/Cal/83 filed April 5, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An open-end spinning rotor, which is disposed on a rotor shaft, characterized in that the said rotor shaft has a centering section for centering the open-end rotor, and bears a collar wherein the centering section of the rotor shaft is radially fixed in a central opening of the rotor base, and a clamping disc is mounted and tensioned on the centering section in such a way that the clamping disc presses the spinning rotor against the collar, thus securing the spinning rotor on the rotor shaft.

Compl. Specn. 17 pages.

Drg. 1 sheet.

CLASS : 136 E.

159270

Int. Cl. : B29c-27/06 & F161-41/00, 47/00.

"DEVICE FOR HEATING AN UNDERLYING ELEMENT OF PLASTICS MATERIAL PRIOR TO MAKING A PERFORATION IN SAID UNDERLYING ELEMENT OF PLASTICS MATERIAL".

Applicant : INNOVATION TECHNIQUE, a Monegasque corporation of "Les Industries", Rue du Stade, Principality of Monaco, Manufacturers.

Inventor : GERARD GRANDCLEMENT.

Application for Patent No. 487/Del/1982 filed on 29th June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A device for heating an underlying element of plastics material prior to making a perforation in said underlying element of plastics material, said device comprising a plate having a spiral groove in one face of said plate for receiving an electrical heating wire conductor snugly therein, said

groove terminating at an inner end thereof near a central portion of said plate and terminating at its other end near a periphery of said plate; characterised in that said plate is thin and flexible and made of a thermoplastic material, a central hole being provided in said plate, said central hole being spaced from said inner end of said groove; a pair of projections being located at the periphery of said plate diametrically opposite each other with respect to said central hole, said projections extending substantially perpendicular to said plate for accommodating wire-wrapped terminal portions of said wire conductor and a tongue for providing a connection from the terminal end of said conductor at said inner end of the spiral groove to one of said projections.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 24 B.

159271

Int. Cl. : F 16d 55/02.

"A MOTOR CYCLE WHEEL IN COMBINATION WITH A DISC BRAKE".

Applicant : AUTOMOTIVE PRODUCTS PLC., of Tackbrook Road, Leamington Spa, Warwickshire CV31 3ER, England, a British company.

Inventor : RICHARD ARNOLD BASS.

Application for Patent No. 571/Del/1982 filed on 27th July, 1982.

Convention Date 29th August, 1981/8126424 and 18th March, 1982/8207952/(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A motor cycle wheel in combination with a disc brake, said brake having an annular disc secured by fastening means at several positions around its outer peripheral margin to the wheel, the wheel being rotatable about an axis and a brake caliper straddling the inner periphery of the annular disc and fixed to one of a pair of fork legs wherein there is provided both a radial clearance between the fastening means and the annular disc and a limited axial play relative to the axis of rotation of the wheel between the wheel and the annular disc.

Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 32A₁.

159272

Int. Cl. : C09b 23/00 & 62/00.

"PROCESS FOR PREPARING CATIONIC METHINE DYESTUFFS".

Applicant : BAYER AKTIENGESELLSCHAFT, a German company of 5090, Leverkusen, Bayerwerk, West Germany.

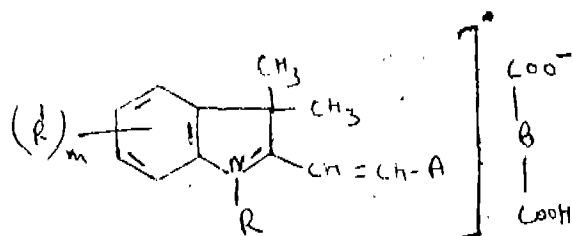
Inventors : RÖDERICH RAUE, VOLKER HUHNE & HANS PETER KUHLETHAU.

Application for Patent No. 612/Del/82 filed on 11th August, 1982.

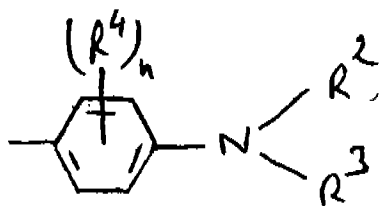
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

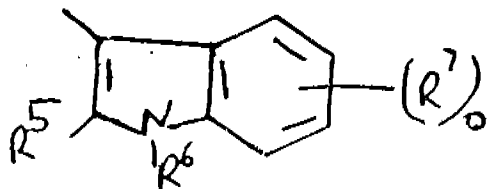
Process for preparing cationic methine dyestuffs of the general formula I



wherein R represents an alkyl radical having 1 to 4 C atoms and which is optionally substituted by hydroxyl, alkoxy having 1 to 4 C atoms, acyloxy, halogen, cyano, carboxy, C₁-C₄-carbalkoxy, carboxamide or acetyl, R¹ represents hydrogen, an alkyl radical having 1 to 4 C atoms, halogen, alkoxy having 1 to 4 C atoms, hydroxyalkoxy having 2-4 C atoms, a phenoxy radical which is optionally substituted by halogen, C₁-C₄-alkyl or C₁-C₄-alkoxy, benzyloxy, benzyl, carboxyl, an alkyl carboxylate having 1 to 4 C atoms, a carboxamide group optionally substituted by 1 or 2 C-C₄ alkyl radicals, a sulphonamide group optionally substituted by 1 or 2 C-C₄ alkyl radicals, alkylsulphonyl having 1 to 4 C atoms, phenylsulphonyl or a cyano, trifluoromethyl, acetyl or benzoyl group, and a represents a radical of the formula II

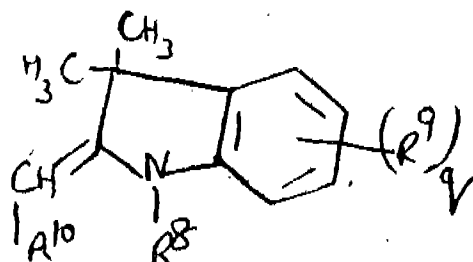


in which R² and R³ independently of one another represent an alkyl radical having 1 to 4 atoms and which is optionally substituted by hydroxyl, C-C₄ alkoxy, halogen, cyano, phenyl, carbalkoxy having 1 to 4 C atoms, carboxamide, acyloxy benzyloxy, sulphonamide or acylamino, R³ additionally also represents a phenyl or benzyl radical which is optionally substituted by halogen, C-C₄-alkyl or C₁ to C₄-alkoxy or R², together with the adjacent C atom of the benzene ring halogen, cyano, phenyl, carbalkoxy having 1 to 4 C atoms, carboxamide, acyloxy, benzyloxy, sulphonamido or acylamino, R² additionally also represents a phenyl or benzyl radical which is optionally substituted by halogen, C-C₄ alkyl or C to C-alkoxy or R², together with the adjacent C atom of the benzene ring, can form a partially hydrogenated N- and, if appropriate, O-containing 5- or 6-ring, and R¹ denotes hydrogen, an alkyl radical having 1 to 4 C atoms, an alkoxy radical having 1 to 4 C atoms or halogen, or a radical of the formula III



in which R⁶ denotes an alkyl radical having 1 to 4 C atoms, a phenyl radical optionally substituted by halogen, C₁-to C alkyl or C- to C alkoxy or a carbalkoxy radical having 1 to 4 C atoms, R⁶ denotes hydrogen or an alkyl

radical having 1 to 4 C atoms and which is optionally substituted by hydroxyl, halogen, alkoxy having 1 to 4 C atoms, cyano or acyloxy and R⁷ denotes hydrogen, halogen, C₁- to C alkyl, C₁- to C₄ alkoxy, carbalkoxy having 1 to 4 C atoms, C₁- to C₄-alkylsulphonyl, phenylsulphonyl, acetyl or benzoyl or a radical of the formula IV



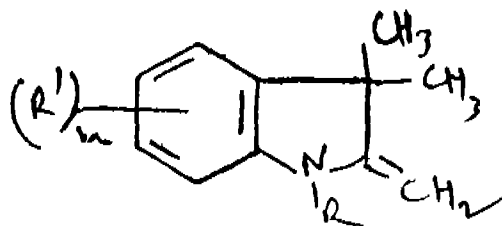
wherein R⁸ and R⁹ independently of one another have the same meaning as R and R¹,

R¹⁰ designates hydrogen or the cyano group,

B represents a single bond or a C₁- to C₄ alkylene radical which is substituted by hydroxyl radicals and which is optionally substituted by one additional carboxyl group and

the indices m, n, o and q independently of one another denote 1-4,

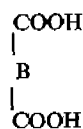
characterised in that a compound of the formula IX



R, R¹ and m have the meaning indicated above is reacted with equimolar amounts of a compound of the formula X

A-CHO

A has the meaning indicated above and with 1 to 5 mols of a compound of the formula XI



in which

B has the meaning indicated above in the presence of 0-30% of an organic solvent such as described and 0-15% of water, the two percentages being relative to the total of the weights of the aldehyde and the methyleneindoline,

Process as claimed in claims 1 to 3, characterised in that the reaction is carried out at temperatures 40 and 120°C.

Compl. Specn. 34 pages.

Drgs. 7 sheets.

CLASS : 32F₂ (b).

159273

Int. Cl. : CO7d 93/00.

"A PROCESS FOR PREPARING PIROXICAM".

Applicant : PFIZER INC., a corporation organised under the laws of the State of Delaware, United States of America of 235 East 42nd Street, New York, State of New York, United States of America.

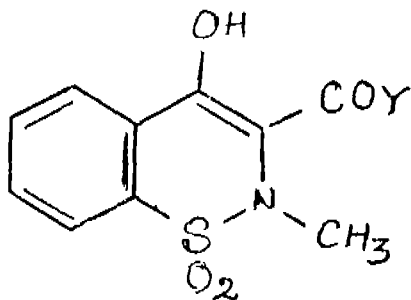
Inventor : PAUL DOUGLAS WEEKS.

Application for Patent No. 719/Del/82 filed on 22nd September, 1982.

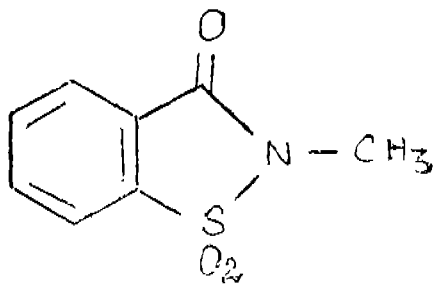
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

Claims

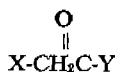
A process for preparing a compound of formula I



wherein Y is selected from the group consisting of alkoxy having from one to four carbon atoms, 2-methoxyethoxy and 2-pyridylimino which comprises reacting a compound of formula III



with a compound selected from those of the formula VII



wherein X is selected from the group consisting of chloro, bromo and iodo in a polar, reaction-inert solvent of the kind such as herein described in the presence of a base selected from the group consisting of at least two equivalents of a metal hydride, at least two equivalents of an alkali metal alkoxide having one to four carbon atoms, at least two equivalents of potassium hexamethyl disilazane and at least two equivalents of potassium diisopropylamino at a temperature of from 25° to 70°C.

Compl. Specn. 46 pages.

Drg. 1 sheet.

CLASS : 198D.

159274

Int. Cl. : B03b 3/18.

"A DEVICE FOR BENEFICATION OF MINERALS".

Applicant : VOROSHILOVGRADSKY FILIAL GOSUDARSTVENNOGO PROEKTNOKONSTRUKTORSKOGO 2-37GI/87

I NAUCHNO-ISSLEDOVATELSKOGO INSTITUTA PO AVTOMATIZATSII UGOLNOI PROMYSHLENNOSTI "GIPROGLEAVTOMATIZATSIYA", a U.S.S.R. company of Voroshilovgrad, Ulitsa Oboronnaya, 32a, U.S.S.R.

Inventor : VLADIMIR STEPANOVICH SINEPOLSKY, ALEXANDR GEORIEVICH GRIBOV VIKTOR IVANOVICH KAZBAN, VASILY VASILIEVICH GOLOVATSKY AND SERGEI IVANOVICH DUBOVOI.

Application for Patent No. 737/Del/1982 filed on 6th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A device for beneficiation of minerals, for example, coal in hydraulic jigs, which comprises a transducer having a sensing element in the form of a float which is pulsed together with the parting liquid and responds to the pulsation thereof a signal converter connected in series with the transducer, and a series circuit including a comparison unit also connected to a setting unit, a controller, a control unit, and an actuating mechanism having a valve to control the rate of supply of the compressed air, and wherein the transducer is a velocity transducer of the vertical movement of the parting liquid, and between the converter and the comparison unit is connected in series a peak detector incorporating an averaging unit.

Compl. Specn. 33 pages.

Drgs. 3 sheets.

CLASS : 85 J & 40B.

159275

Int. Cl. : C10b 55/10.

"PROCESS AND APPARATUS FOR REGENERATING A COKE CONTAMINATED FLUID CATALYST".

Applicant : UOP INC., a corporation in the State of Delaware, with its principal place of business of Ten UOP Plaza, Algonquin & Mt. Prospect Roads, Des Plaines, Illinois 60016, United States of America.

Inventors : DAVID ALFRED LOMAS & GREGORY JOHN THOMPSON.

Application for Patent No. 738/Del/82 filed on 6th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

A process for regenerating a coke contaminated fluid catalyst characterised in that said process includes the steps of :

- introducing an oxygen-containing regeneration gas stream, and a stream of coke contaminated fluid catalyst particles into a lower part of a combustion zone (1) maintained at a temperature sufficient for coke oxidation and therein oxidizing the coke to produce hot regenerated catalyst particles and hot flue gas;
- transporting said hot flue gas and said hot regenerated catalyst particles from an upper part of said combustion zone (1) into a regenerated catalyst disengaging zone (2), wherein said hot regenerated catalyst particles are separated from said hot flue gas;
- transporting a portion of said hot regenerated catalyst particles from said disengaging zone (2) to an upper part of a cooling zone (3) separate from and in open communication with said disengaging zone (2);
- cooling the particles transported to said cooling zone (3) by passing them into contact with an indirect heat exchange means inserted into said cooling means, whereby heat is withdrawn from

said hot regeneration catalyst particles by indirect heat exchange with a cooling fluid, circulated through the heat exchange means to produce a stream comprising relatively cool regenerated catalyst particles which is withdrawn from a lower locus of said cooling zone, said catalyst particles being maintained in said cooling zone (3) as a dense phase fluidized bed by passing a fluidizing gas upwardly through the cooling zone (3) at a velocity sufficient to cause backmixing of said particles, the quantity of heat withdrawn from said catalyst particles in said cooling zone (3) being controllably maintained by controlling a combination of the quantity of said fluidizing gas passed into said cooling zone and the quantity of particles flow through said cooling zone, whereby the heat transfer co-efficient between said heat exchange means and said dense phase fluidized bed is controlled; and

- (e) recovering a product stream of hot regenerated catalyst particles from said disengagement zone (2) at a temperature which is indirectly controlled by the amount of heat removed in cooling step (d).

Compl. Specn. 41 pages.

Drgs. 3 sheets.

CLASS : C 87 B & G.

159276

Int. Cl. : F 02 b 15/00, 43/00 & F 02 m 21/02.

"AN INTAKE GAS RESONANCE DEVICE FOR USE WITH INTERNAL COMBUSTION ENGINES".

Applicant(s) : AUTOIPARI KUTATO INTEZET, of Budapest, Csoka U. 7-13, 1115 Hungary, a Hungarian company.

Inventor(s) : DR. GYULA CSER DIPL ING.

Application for Patent No. 765/Del/1982 filed on 19th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

An intake gas resonance device for use with a reciprocating piston type internal combustion engine with a plurality of engine cylinders whose suction strokes do not significantly overlap; each including an intake opening;

said intake gas resonance device comprising a resonator vessel communicating with the intake openings of the cylinders of said group, said resonator vessel having a volume and an inner wall face;

a resonance tube having an end operatively coupled to said resonator vessel for communicating therewith; said resonance tube having a longitudinal axis and a volume; said end of said resonance tube being located opposite said inner wall face of said resonator vessel a resonating space having a volume composed of said volume of said resonator vessel and an average cylinder volume related to one cycle of oscillation and communicating with said resonator vessel during one oscillating cycle characterised in that the distance between said end of said resonance tube and said inner wall face of said resonator vessel as measured along said longitudinal axis of said resonance tube being greater than the diameter of a circle whose area equals the cross-sectional area taken at said end of said resonance tube; said resonance tube having a first and second tube portions said first portion reducing velocities of gases passing through said resonance tube into said resonator vessel; said first portion gradually widening and forming part of said resonance tube and terminating in said end; said first portion having cross-sectional areas continuously increasing towards said resonator vessel said second portion flaring away from said resonator vessel and having cross-sectional areas increasing in a direction away from said resonator vessel; a cross sectional area taken at said end of the resonance tube perpendicularly to said longitudinal axis being at least 1.2 times greater at its flaring ends than a cross section of minimum areas of said tube at said portions with said cross section being substantially spaced from said end; and said

volume of said resonating space being at least 2.5 times greater than said volume of said resonance tube.

Compl. Specn. 32 pages.

Drgs. 2 sheets.

CLASS : 102 B, D & 24 D, E.

159277

Int. Cl. : F 15b, 3/00, 15/02 & F16d-65/14, 65/32.

"FLUID PRESSURE OPERABLE DIAPHRAGM ACTUATORS".

Applicant : BENDIX LIMITED, a British company of Douglas Road, Kingswood, Bristol, BS15 2NL England.

Inventors : DAGGER NORMAN & JOSEPH IAN.

Application for Patent No. 865/Del/1982 filed on 24th November, 1982.

Convention date 2-12-81/8136344/(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A fluid pressure operable diaphragm actuator having a housing containing a pressure chamber one wall of which is formed by a diaphragm, a push plate co-operable with the diaphragm and a push rod connected thereto extending outwardly of the housing via the bore of a tube which is a fixed part of the housing wherein the push rod has at least one packing member located thereon which is guidingly slideable in the said tube and a resilient anti contaminant scraper means acting inwardly of the packing member for protecting the outward end of the tube against contaminants passing thereto from the actuator.

Compl. Specn. 6 pages.

Drg. 1 sheet.

CLASS : 132 A₂, B₂.

159278

Int. Cl. : B 01 f-7/00.

"MIXING APPARATUS FOR MIXING A LIQUID OR A LIQUID SUSPENSION MEDIUM."

Applicant(s) : GENERAL SIGNAL CORPORATION, of High Ridge Park, Stamford, Connecticut, United States of America, a corporation organised under the laws of the State of New York, U.S.A.

Inventor(s) : RONALD JOHN WEETMAN.

Application for Patent No. 891/Del/1982 filed on 7th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

23 Claims

Mixing apparatus for mixing a liquid or a liquid suspension medium which comprises a vessel for holding said liquid or liquid suspension with a shaft provided within the vessel upon the axis of which an impeller is mounted below the level of the liquid or liquid suspension, said impeller comprising a plurality of blades mounted on said shaft for rotation about said axis, each of said blades being formed of a plate and having a tip a base, a leading edge and a trailing edge, characterised in that said leading edge has a contoured or substantially curved profile, each of said blades having a camber which decreases from approximately 8% at said tip to 0% in a region adjacent said base, each of said having a geometric pitch angle which is from 12° to 32° at said tip thereof and increases from said tip to said base to an angle which provides threshold flow separation conditions for said medium from the surface of said blade along the width thereof from said leading to said trailing edge thereof whereby maximum flow of said medium in the direction axially of said shaft is obtained before the onset of said separation,

Compl. Specn. 22 pages.

Drgs. 2 sheets.

CLASS : 76 E & 138 D, E.

159279

Int. Cl. : B25c, 5/00, B25b, 27/00, B65c, 7/00 & F16b, 15/00.

'APPARATUS FOR DISPENSING FASTENERS'.

Applicant : DENNISON MANUFACTURING COMPANY, a corporation of the State of Nevada, with a principal place of business at 300 Howard Street, Framingham, Massachusetts 01701, United States of America.

Inventor : ARNOLD ROBERTS BONE.

Application for Patent No. 920/Del/1982 filed on 16th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

Apparatus for dispensing fasteners which comprises :

housing means for receiving an assembly of fasteners; a slotted hollow needle at the front portion of said housing through which said fasteners are adapted to be expelled individually from said housing means; means within said housing at the base of said slotted hollow needle for feeding and aligning an individual fastener with the bore of said needle;

expulsion means also within said housing and connected to said feeding and aligning means for the expulsion of an individual fastener into the bore of said slotted hollow needle;

control means in the form of a lever one end of which is pivotally connected to said expulsion means; and trigger means provided in spring-loaded connection with said housing, the opposite end of said control lever being pivotally connected to said trigger means whereby on depressing trigger, the end of said lever pivotally connected to said expulsion means moves in a linear path between two fixed points provided on said expulsion means for effecting a controlled movement of said expulsion means and thereby an activation of said feeding and aligning means connected thereto to align an individual fastener with the bore of said hollow slotted needle and to expel it therethrough.

Compl. Specn. 16 pages.

Drgs 3 sheets.

CLASS : 77B₂ & C.

159280

Int. Cl. : A 23d c 5/00. n

"A PROCESS FOR TREATING NATURAL FATTY SUBSTANCE TO PRODUCE ONE OR MORE EDIBLE FRACTIONS".

Applicant : LESIEUR-COTELLE & ASSOCIES S.A., a French Joint Stock company of 122, avenue due General Leclerc, Boulogne sur Seine (Hauts de Seine), France.

Inventor : JEANMARIE KLEIN AND ALBERT LACOME.

Application for Patent No. 76/Del/1983 filed on 7th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

A process for the treatment of natural fatty substance for the production of edible fractions, comprising primary stages of fractionation of the oil to be treated by means of suitable fat-fractionating solvents, which are present in an amount from 0.5 to 7 times the weight of the oil, at temperature of from +35°C to -20°C, to produce one or two solid fractions, which are washed with fresh solvent,

and an intermediate fluid fraction, and a stage of interesterification of the intermediate fluid fraction, which is carried out in the presence of a suitable interesterification catalyst at a temperature of from 20°C to 80°C, said primary fractionation stages being associated with a complementary stage of fractionation of the intermediate interesterified fluid fraction and optionally being associated with complementary stages of fractionation of the solid fraction or fractions, the complementary fractionating stages using a suitable fat-fractionating solvent in order to produce four fractions that have properties of edible fats, namely : a fluid fraction with an iodine number of higher than 80, containing more than 20% of unsaturated triglycerides, and free of trans isomers : a solid fraction having an iodine number of from 31 to 43, that essentially contains 2-oleo-1, 3-dipalmitin (POP) a solid fraction (SSI/SII) with an iodine number of from 33 to 43, that contains mixed triglycerides : and a solid fraction (SSS) with an iodine number of lower than 20 and essentially containing saturated triglycerides, whereby all fractions retain their properties as edible oils and solids.

Compl. Specn. 53 pages.

Drgs. 3 sheets.

CLASS : 32F₃ (b) & (c).

159281

Int. Cl. : C07c 63/00.

"A PROCESS FOR THE PREPARATION OF TRIMETHYL ETHER OF GALLIC ACID FROM TERMINALLIA CHEBULA FRUITS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : SUDAN CHANDRA BASA AND CHAKIRALA SRINIVASULU.

Application for Patent No. 9/Del/1983 filed on 7th January, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A process for the preparation of trimethyl ether of gallic acid from *Terminalia chebula* fruits comprising subjecting the fruit cover of *Terminalia chebula* to hydrolysis by known methods and extracting the hydrolysate with organic solvent and methylating by known-methods the extract so obtained to the trimethyl ether.

Compl. Specn. 9 pages.

CLASS : 32F₃ (a).

159282

Int. Cl. : C07c 69/00.

"PROCESS FOR THE PREPARATION OF ALLYLIC AND BENZYLIC ESTERS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : KAMBADUR NAGARAJARU GURUDUTT, BHAGAVATHULA RAVINDRANATH AND PULLABHATIA SRINIVAS.

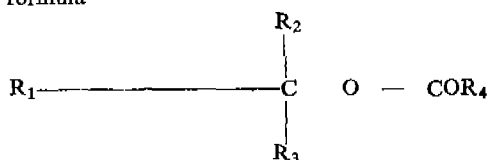
Application for Patent No. 59/Del/1983 filed on 12th February, 1983.

Complete specification left on 2nd May, 1984.

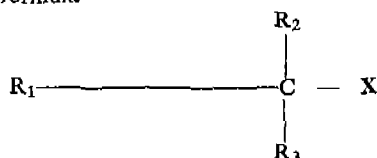
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A process for preparation of allylic or benzylic esters of the formula



wherein R_1 is an aryl or vinyl group, R_2 & R_3 are hydrogen or one of them is hydrogen and the other an alkyl group and R_4 is an alkyl group, comprising stirring a zinc salt with corresponding carboxylic acid and treating the mixture formed with the corresponding allylic or benzylic halide of formula



wherein R_1 , R_2 & R_3 have the meaning given above and X is a halogen.

Compl. Specn. 9 page.

CLASS : 126 D.

159283

Int. Cl. : G 01n 19/02.

"TRIBOTESTER".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : SUSHIL KUMAR BASU AND HARIJAN BAGCHI.

Application for Patent No. 65/Del/83 filed on 3rd February, 1983.

Complete specification filed on 3rd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A tribotester, for measurement of friction and wear properties of materials mated with steel under accelerated conditions comprising two side plates fixed on a main frame, an electrical motor mounted on the main frame with a roller placed in between the side plates, the roller is rotated by means of a pulley and a gear train system through a coupling attached to the motor, a specimen holder for holding the specimen, the wear of which is to be measured, mounted on a lead screw, the holder is reciprocating over the roller linearly through the actuation of limit switches, a steel disc kept rotatable through level gears connected to the roller, another specimen holder for holding the specimen, the friction of which is to be measured, kept over the disc under direct load and connected to precalibrated proving ring provided with a mechanical dial gauge to measure the friction force.

Provisional Specn. 4 pages.

Drgs. 2 sheets.

Compl. Specn. 10 pages

Drgs 5 sheets.

CLASS : 140 B₃.

159284

Int. Cl. : C 10g 29/22.

"SOLVENT DEWAXING PROCESS FOR FREEING HYDROCARBON OILS FROM WAX".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, a corporation of Delaware, United States of America, carrying on business as a company for the holding of patents and research licences thereunder, and technical development and research work at Florham Park, New Jersey, United States of America,

Inventor : THEODOVE HARVEY WEST.

Application for Patent No. 77/Del/83 filed on 8th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the dewaxing of waxy hydrocarbon oils characterised in that methyl tertiary butyl ether is mixed with said oil to form a slurry which is chilled to provide solid particles of wax and a mixture of dewaxed oil and methyl tertiary butyl ether.

Compl. Specn. 17 pages.

Drg. 1 sheet.

CLASS : 32F₂ (c) & 32F₃ (b).

159285

Int. Cl. : C07c 103/00.

"A PROCESS FOR THE PREPARATION OF AMINOTRICARBOXYLIC ACIDS AND THEIR SALTS".

Applicant : SIR PADAMPAT RESEARCH CENTRE, A DIVISION OF J. K. SYNTHETICS LTS., J. K. NAGAR, KOTA-324 003 (Rajasthan) INDIA.

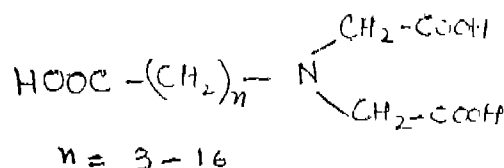
Inventors : KESHAV VINAYAK DATYE, NARESH DUTTA SHARMA & BOMMU VENKATESWARA RAO.

Application for Patent No. 86/Del/83 filed on 11th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

14 Claims

A process for the preparation of aminotricarboxylic acid of the formula shown in figure 1



8

and its salts such as herein described which comprises reacting aminocarboxylic acid or its salts such as herein described with chloroacetic acid or its salts such as herein described in an alkaline medium selected from alkali metal hydroxides, alkali metal carbonates or alkali metal earth metal hydroxides and when desired subjecting the tri alkali earth metal salt of aminotricarboxylic acid to the step of partial or full neutralization or treatment with carbon dioxide in an aqueous solution or by treatment with alkali carbonates or bicarbonates.

Compl. Specn. 26 pages.

Drg. 1 sheet.

CLASS : 32F 3(c).

159286

Int. Cl. : C 07 c-169/00.

"AN IMPROVED PROCESS FOR THE PREPARATION OF ESTRIOL 3-O-CARBOXYMETHYL ETHER".

Applicant(s) : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

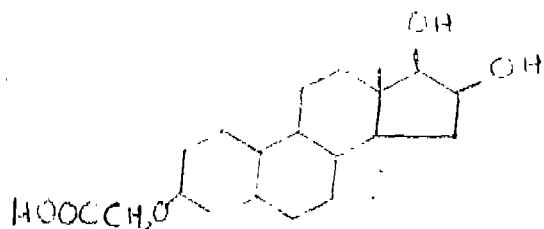
Inventor(s) : TARUN KUMAR DHAR, ESAHAK ALI AND MRIDUL GHOSH.

Application for Patent No. 114/Del/1983 filed on 22nd February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

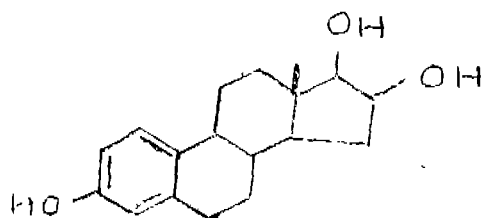
5 Claims

An improved process for the preparation of estriol 30-carboxymethyl ether of formula III comprising reacting estriol of

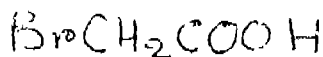


9

formula I with a bromo acetic acid of formula II and solid



10



11

potassium hydroxide, wherein R is an alkyl group like methyl, ethyl or propyl and a like radical and separating by known methods the ether formed.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 85 H.

159287

Int. Cl. : F27d 1/04.

"A PROCESS FOR THE MANUFACTURE OF HIGH STRENGTH INSULATING BRICKS".

Applicant : CEMENT RESEARCH INSTITUTE OF INDIA, M-10 South Extension, Part-II, Ring Road, New Delhi-110 049, India, an Indian Institute.

Inventors : VARANASI VENKATA SUBBA RAO, SHIBAN JI RAJNA, SATISH CHANDRA SHARMA, ASHWANI PAHUJA & SURINDER KRISHAN CHOPRA.

Application for Patent No. 201/Del/83 filed on 30th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A process for the manufacture of high strength insulating bricks which comprises in preparing a wet homogenous mix consisting of 30 to 40% by weight of grog, such as fireclay grog, 40 to 60% by weight of plastic fireclay and 10 to 20% by weight of a porosity inducing agent consisting of an organic based material having a burning tempera-

ture not exceeding 600°C, introducing said raw mix into moulds to form moulded bricks, and then subjecting said moulded bricks to the step of firing and then cooling the fired brick.

Compl. Specn. 10 pages.

CLASS : 32-E.

159288

Int. Cl. : C 08 f 27/02.

"PROCESS FOR THE CONTINUOUS PRODUCTION OF A HALOGENATED POLYMERS".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, a corporation of Delaware, United States of America, carrying on business as a company for the holding of patents and granting licences thereunder, and technical development and research work at 200 Park Avenue, Florham Park, New Jersey, United States of America.

Inventor : RONALD CHARLES KOWALSKI & NEIL FREDERICK NEWMAN.

Application for Patent No. 239/Del/83 filed on 11th April 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

39 Claims

A process for the continuous production of a halogenated polymer by introducing a polymer into a feed zone wherein said polymer is subjected to conditions of temperature and pressure sufficient to generate a cohesive mass; passing said polymer through a first flow restriction zone to a reaction zone wherein a halogenating agent is injected into said polymer mass while the polymer and halogenating agent are subjected to a high degree of mixing, passing the resulting product mixture through a second flow restriction zone into a neutralizing zone wherein neutralizing agent is injected into said product mixture to neutralize said product mixture, and delivering said halogenated polymer product from said neutralizing zone, wherein said polymer is passed through said zone by extrusion.

Compl. Specn. 33 pages.

Drg. Nil.

CLASS : 32 B & 56 E.

159289

Int. Cl. : C1 07 c/08.

"A CONTINUOUS SOLVENT EXTRACTION-STEM DISTILLATION (ENERGY EFFICIENCY) PROCESS FOR THE RECOVERY OF AROMATIC HYDROCARBONS".

Applicant : UNION CARBIDE CORPORATION, Manufacturers, organized and existing under the laws of the State of New York, United States of America, with offices at Old Ridgebury Road, Danbury, State of Connecticut, 06817, United States of America.

Inventors : JOSE ANTONIO VIDUEJRA, KENNETH FRANCIS BUTWELL & PAULINO FORTE.

Application for Patent No. 360/Del/1983 filed on 30th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A continuous solvent extraction-steam distillation energy efficiency process for the recovery of aromatic hydrocarbons in the range of C₆ to C₈ from a feedstock containing such aromatics and aliphatic hydrocarbons in the range of C₅ to C₁₀ wherein, said process comprises :

- providing a distillation zone and two flash zones;
- passing an aromatic rich solvent stream such as herein described through said flash zones where they are let down and partially vaporized to obtain overhead vapor streams;

- (c) passing the unvaporized portion of the aromatic rich solvent from step (b) to the top of the distillation zone where it is contacted with a stream of steam to further remove the remaining heavy non-aromatic components from said aromatic rich solvent;
- (d) combining the overhead vapor streams from the two flash zones with a vapor stream of water and hydrocarbons from the distillation zone and heat exchanging the combined stream with a stream of water;
- (e) contacting the unvaporized aromatic rich solvent from step (b) with a stream of steam at the bottom of the distillation zone to remove substantially all aromatic hydrocarbons from said solvent stream;
- (f) removing aromatics, water, and a small amount of impurities as a sidedraw product and heat exchanging said sidedraw product stream with a stream of water;
- (g) condensing the combined overhead vapor steam in step (d) and the sidedraw product stream in step (f), respectively, after heat exchange, and separating the condensates into a hydrocarbon rich phase and a water rich phase;
- (h) combining the water rich phase of the combined overhead vapor stream and the sidedraw product stream, thereby providing the water streams used for heat exchange in step (d) and step (f);
- (i) compressing the water vapor stream of step (h) after heat exchange and recycling it to the bottom of the distillation zone to provide steam for step (e);
- (j) driving a turbine with steam and feeding a portion of the superheated steam produced from said turbine to drive a reboiler under conditions sufficient to maintain good heat quality as hereinbefore described;
- (k) passing an aromatic rich solvent stream from the distillation zone to the reboiler in heat exchange relationship with a vapor stream of steam from step (j);
- (l) utilizing the remaining portion of the superheated steam from step (j) in other parts of the refinery where a net energy saving could be realized as hereinbefore described.

Compl. Specn. 26 pages.

Drg. 1 sheet.

CLASS : 55-D₂.

159290

Int. Cl. : A 01 n 17/00.

GRANULAR PESTICIDE COMPOSITION.

Applicant : PENNWALT CORPORATION, PENNWALT BUILDING, THREE PARKWAY, PHILADELPHIA, PENNSYLVANIA 19102, UNITED STATES OF AMERICA.

Inventor : 1. MICHAEL JOSEPH MAGLIO.

Application No. 1298/Cal/83 filed October 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Process for preparing a granular slow release soil pesticide composition comprising by weight based on the total composition of from about 5 to about 90% of polyvinyl alcohol, from about 1 to about 20% of a borate, from 2 to 50% of a compatible pesticide and upto 80% of

filler(s) which comprises mixing (a) an aqueous solution of polyvinyl alcohol wherein the solids concentration of polyvinyl alcohol is about 10% and a compatible pesticide and optionally at least one filler(s) selected from the class consisting of diatomites, attapulgit, bentonites, talcs, montmorillonites, perlites, vermiculites, calcium carbonates, corn cob grits, wood flour, lignin sulfonates and mixtures thereof with (b) a borate until ingredients (a) and (b) react to form a gel, drying the gel, and grinding the dried product to the desired particle size.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 128-G.

159291

Int. Cl. : A 61 b 1/00.

A TEMPERATURE MEASURING DEVICE FOR DETECTING THE OVULATION OF WOMEN.

Applicant & Inventor : WERNER WEILAND, KOBLENZ-OLPER STRASSE 172, D-5413 BENDORF-SAYN, WEST GERMANY.

Application No. 401/Cal/83 filed April 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims

A temperature measuring device for determining ovulation of women comprising a sensor for temperature (9, 103) adapted to be secured on the body (30) or in a body opening (1), a temperature measuring instrument (109) connected to the sensor (9, 103) and indicating device such as an indicator (108) connected to the temperature measuring instrument (109) like microprocessor or a signal transmitter (13) actuated by the sensor (9).

Compl. Specn. 14 pages.

Drgs 2 sheets.

CLASS : 39-K.

159292

Int. Cl. : C 01 b 17/72.

AN IMPROVED PROCESS FOR THE PRODUCTION OF SULFURIC ACID.

Applicant : MONSANTO COMPANY, AT 800 NORTH LINDBERG BOULEVARD, ST. LOUIS, MISSOURI 63167, UNITED STATES OF AMERICA.

Inventors : 1. JOHN SHEPUTIS, 2. PAUL ROBERT MINBIOLE.

Application No. 439/Cal/83 filed April 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An improved process for the production of sulfuric acid comprising :

creating a gas stream containing a concentration of at least approximately 12% sulfur dioxide;

converting said sulfur dioxide to sulfur trioxide in a converter having first and second oxidation stages, said first oxidation stage having at least three catalyst beds and said second oxidation stage having at least two catalyst beds; and

absorbing said sulfur trioxide to provide sulfuric acid in an interpass absorption tower following said first oxidation stage and further absorbing said sulfur dioxide in a final absorption tower following said second oxidation stage.

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 9-A; 12-C.

159293

Int. Cl. : C 22 c 21/02; C 22 f 1/00; C 21 d 9/48.

METHOD OF MAKING SHEETS OF ALUMINIUM ALLOY SUITABLE FOR DRAWING.

Applicant : SCAL SOCIETE DE CONDITIONNEMENTS EN ALUMINIUM OF 47, RUE DE MONCEAU 75008, PARIS, FRANCE.

Inventors : 1. FRANCOIS-REGIS BOUTIN, 2. JAN KUBIE.

Application No. 500/Cal/83 filed April 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A method of making sheets of aluminium alloy suitable for drawing comprising the steps of :

- (a) casting the alloy between cylinders to form a strip;
- (b) subjecting the strip to mechanical cleaning to enable most of the particles deposited on the surface and the thick oxide layer formed during casting to be eliminated;
- (c) reforming an oxide anti-galling layer on the surface of the strip by heat treatment carried out at elevated temperature in air intermittently over a period of 4 to 8 hours at a temperature in the range of 520° to 550°C, or continuously over a period of 1 to 10 minutes at a temperature in the range of 600° to 620°C;
- (d) subjecting the strip coated with the layer to the rolling operations to convert it in a sheet with a thickness of the order of 300 µm in a series of passes optionally separated by annealing treatment;
- (e) cutting discs from the sheet; and
- (f) subjecting discs to deep drawing and ironing.

Compl. Specn. 15 pages.

Drg. Nil.

CLASS : 129-Q.

159294

Int. Cl. : B 23 k 27/00.

AN APPARATUS FOR WELDING A WORKPIECE REQUIRING A PREDETERMINED WELDING SEQUENCE TO BE EFFECTED AND METHOD FOR MANUFACTURING LEAD STORAGE BATTERY BY EMPLOYING THE APPARATUS.

Applicant : GNB BATTERIES INC., OF 1110 HIGHWAY 110, MENDOTA HEIGHTS, MINNESOTA 55118, UNITED STATES OF AMERICA.

Inventors : 1. DANIEL ORLANDO, 2. DAVID LEE LUND, 3. GLENN RICHARD WABER.

Application No. 503/Cal/83 filed April 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

An apparatus for welding a workpiece requiring a predetermined welding sequence to be effected which comprises :

- (a) at least one welding station having welding means for welding said workpiece;
- (b) conveying means for moving said workpiece through said welding station;
- (c) aligning and retaining means for positioning said workpiece in at least one predetermined position in said welding station relative to said welding means;

(d) sensing means for determining the presence of said workpiece at said predetermined position;

(e) means capable of moving said welding means and said workpiece at said predetermined position back and forth relative to each other from an inoperative position to an operative position for welding said workpiece;

(f) master control means for controlling the means identified in subparagraphs (a) through (e) in accordance with a predetermined sequence to effect the welding sequence required; and

(g) slave control means at said welding station capable of receiving welding instructions from said master control means, operating said welding means pursuant to said instructions and signalling said master control means when welding has been completed.

Compl. Specn. 41 pages.

Drgs. 5 sheets.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

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153087	153088	153089	153090	153091	153092	153093
153094	153095	153096	153097	153098	153099	153100
153101	153102	153103	153104	153105	153106	153107
153108	153109	153110	153111	153112	153113	153114
153115	153116	153117	153118	153119	153120	153121
153122	153123	153124	153125	153126	153127	153128
153129	153130	153131	153132	153133	153134	153135
153136	153137	153138	153139	153140.		

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153141	153142	153143	153144	153145	153146	153147
153148	153149	153150	153151	153152	153153	153154
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153162	153163	153164	153165	153166	153167	153168
153169	153170	153171	153172	153173	153174	153175
153176	153177	153178	153179	153180	153181	153182
153183	153184	153185	153186	153187	153188	153189
153190.						

PATENTS SEALED

155998	156398	156405	156594	156917	156966	157020
157133	157134	157135	157136	157137	157138	157253
157274	157275	157334	157410	157411	157414	157415
157418	157419	157420	157421	157425	157428	157429
157433	157434	157442	157444	157445	157447	157451
157458	157462	157682	157699.			

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendment proposed by Paramex Chemicals Limited, in respect of Patent No. 157649 as advertised in the Part III, Section 2 of the Gazette of India dated the 25th October, 1986 has been allowed.

COMMERCIAL WORKING OF PATENTED INVENTIONS

MECHANICAL & GEN. ENGR.
List—I.

The following patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146 (2) of Patents Act, 1970, in respect of calendar year 1985 generally on account of want of request for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
134415	12-9-1972	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Process for the preparation of high purity water by solar stills.
137375	18-12-1972	Do.	Improvements in or relating to process for construction of this impermeable and durable cut off walls.
139230	26-4-1974	Do.	Improvements in or relating to making sand-lime type bricks using flyash.
139454	7-1-1974	Do.	Improvements in or relating to paint stripper.
142650	22-4-1978	Do.	Pencil type coating thickness gauge.
143061	24-9-1977	Do.	A process for making prestressed concrete poles and portable column mould assemblies therefor.
143731	21-1-1978	Do.	A process of making an alcohol breath analyser and an apparatus obtained by such process.
144295	9-8-1976	Do.	Improvements in or relating to the wind detection recorder.
144803	9-8-1976	Do.	A high out put stove.
146941	7-11-1976	Do.	Universal friction and wear test rig.
149410	8-9-1978	Do.	A compact device for the simultaneously measuring the settlement characteristics of building and like civil engineering structure.
149607	18-12-1977	Do.	Support means for civil engineering structure.
149662	5-5-1978	Do.	A new semi-automatic machine for the manufacture of building blocks by moulding under high pressure.
151471	6-4-1979	Do.	An improved flat knitting machine with automatic needle selection system.
151651	12-12-1979	Do.	Pump for lifting water from one level to higher level.
151658	10-7-1980	Do.	A device for delineation of subsurface structures.
152056	28-4-1980	Do.	Clean up device for gases and support of roof of tunnels in under ground mines.
152137	22-5-1979	Do.	Improved hydraulically driven circumferential prestressing machine for concrete pipes.
152996	2-9-1978	Do.	An improved resilient antivibration mounting for a machine to be fitted on a foundation or supporting structure.

1	2	3	4
153547	13-12-1979	CGUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, K. J. Somaiya Marg, New Delhi-1, India.	Measurement of bulk volumes of solid samples.
145580	20-7-1971	Do.	A discharge system for discharge of processed material from shaft kiln.
151042	17-2-1979	Do.	A machine for chipping wood into fine chips.
153765	23-4-1981	Do.	An improved process for recovery of tin metal from tin scruff.
154077	28-4-1980	Do.	An improved air spore sampler device.
153049	23-8-1979	UNION CARBIDE CORPORATION, 270 Park Avenue New York, State of New York, 10017 U.S.A.	Threaded joints.
153244	24-1-1979	Do.	Improved ultrafiltration and reverse osmosis device.
153390	9-11-1979	Do.	Dry, particulate, inorganic ultrafiltration membranes and the production thereof.
153772	5-3-1980	Do.	Apparatus for refining molten metal.
152610	16-7-1979	SOLAR HOLDINGS S. A. Panama City, Republic of Panama.	Solar energy collector.
152850	24-7-1979	G. D. SOCIETA PER AZIONI, Via Pomponia, 10 Bologno, Italy.	An improved apparatus for forming and overwrapping batches of products.
152925	9-8-1979	Q Corporation, 755, West Big Beaver Road, Troy Michigan 48064, U.S.A.	Apparatus for extracting energy from the motion of water beneath waves in a large body of water such as an ocean or a lake.
153003	29-8-1979	SOCIETE INTER-NATIONALE DE MECHANIQUE INDUSTRIELLE S.A. 37 rue Notre-Dame, Luxembourg.	Fluid seal assembly.
153008	20-9-1979	AMERICAN FLANGE & MANUFACTURING COMPANY, INC. 1100 West Blancke Street, Linden, New Jersey.	Nestable moulded plastic pouring assembly
153103	17-9-1979	USS ENGINEERS AND CONSULTANTS INC. 100 Grant Street - Pittsburg, state of Pennsylvania, U.S.A.	An apparatus for controlling the flow of liquid metal from the pour opening of teeming vessel.
153186	26-9-1979	GENERAL SIGNAL CORPORATION- High Ridge, Stamford, Connecticut 06904, U.S.A.	Butterfly valve.
153364	20-11-1979	ALUMINUM COMPANY OF AMERICA, Alcoa Building - Pittsburg, Pennsylvania, U.S.A.	Damping spacer for overhead conductors.
153370	26-11-1979	G. D. SOCIETA PER AZIONI- via Pomponia, 10 BOLOGNA, Italy.	Device for feeding and adjusting a continuous web and for cutting it into portions.
153380	19-9-1979	BETHLEHEM STEEL CORPORATION, Bethlehem, Pennsylvania 18016, U.S.A.	A wrought product of a biaxially oriented semi-crystalline thermoplastic polymer.
153381	25-9-1979	SOCIETE D'ETUDES DE MACHINES THERMIQUES S. E. M. T., 2 Quai De Selva, 91202 Saint Denis, France.	Improvement in or relating to a mushroom valve with forced fluid cooling, in particular for an internal combustion engine.
153395	13-11-1979	TBA INDUSTRIAL PRODUCTS LIMITED, 20 St. Mary's Parsonage, Manchester M3 3NL, England.	A process for the production of solid woven conveyor belting and solid woven conveyor belting so produced.
153401	15-11-1979	JACQUES WYBAUW 41, Avenue Brunard, 1180 Bruxelles, Belgium	Prefabricated building.

1	2	3	4
153420	5-12-1979	THE LAITRAM CORPORATION, State of Louisiana United States of America.	Ladder.
153542	5-12-1979	MARSHALL RICHARDS BARCRO LIMITED, Grook County Durham DL 15 8JU, England.	Improved wire drawing method and ap- paratus and the wire made therefrom.
153554	8-1-1980	THE GOODYEAR TIRE & RUBBER COM- PANY, 1144 East Market Street, Akron, Ohio, U.S.A.	A heavy truck tire.
153625	21-1-1980	SOCIETE D'ETUDES DE MACHINES THERMIQUES, S.E.M.T. 2 Quai De Seine, 93202 Saint Denis, France	Cam control device for a four-stroke internal combustion engine.
153632	5-2-1980	MOBIL SOLAR ENERGY CORPORATION, 16 Hickory Drive, Waltham, Massachusetts United States of America.	Belt-roller crystal pulling mechanism.
153810	12-3-1980	CLARK & VICARIO CORPORATION 10600 Endeavour Way, Pinellas Park, Florida 33565, U.S.A.	Apparatus for cleaning and deaerating an aqueous suspension of papermaking stock.
154080	1-5-1980	DUNLOP LIMITED, Dunlop House, Ryder Street St. James's London SW 1Y, 6PX, England.	Integrally-moulded shuttlecock skirt and a shuttlecock having such a skirt.
154324	17-8-1979	SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, 17 Boulevard de Montmorency, Paris, France.	A device for limiting the flapping movements of the blades of a rotary-wing aircraft main rotor.
154376	20-5-1980	G.D. SOCIETA per AZIONI, via Pomponia, 10 Bologna, Italy.	Trimmer device for the tobacco filter in a cigarette manufacturing machine.
154377	21-5-1980	BERTHOLD HALLER KG, Aldingen, Brunnenstrasse 20, F.R.G.	Shutter blind.
154379	23-5-1980	SOCIETE D'ETUDES DE MACHINES THERMIQUES, S.E.M.T. 2 Quai le Seine, 93202 Saint Denis, France.	Improvements in or relating to a fuel injection pump of internal combustion engine.
154399	14-7-1980	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A dispenser.
154511	22-7-1980	TOYO ENGINEERING CORPORATION 2-5, Kasumigasaki, 3-Chome, Chiyoda-Ku, Tokyo, Japan.	Granule producing apparatus.
154567	4-9-1980	THE NATIONAL ENGINEER RESEARCH & DEVELOPMENT CENTRE, I.D.B. Industrial Estate, Block No. 2P/17B Ekala, Ja-ela, Sri Lanka.	An improvement on the cross flow double shot hydro turbine for increasing efficiency.
148427	21-11-1977	G.D. SOCIETA PER AZIONI via Pomponia, 10 Bologna, Italy.	Labelling device.
148670	1-9-1978	BELOIT WALMSBY LTD, Atlas Works Bury, Lancashire, England.	Improvements relating to forming machines for paper webs.
148729	19-1-1978	SICO INCORPORATED, 7525 Cahill Road, Minneapolis Minnesota, U.S.A.	Folding wall table.
148872	27-1-1978	AMERICAN FLANGE & MANUFACTURING COMPANY, INC 1107 West Blancke Street-Linden New Jersey, U.S.A.	Closure plug.
150168	26-10-1978	Do.	Dispensing cartridge and closure combination.

1	2	3	4
152057	14-5-1979	GOODYEAR TIRE & RUBBER CO., 1144 East Market Street, Akron, Ohio, U.S.A.	Apparatus for forming traction grooves in the uncured tread of a heavy off-high-way tire.
148060	23-2-1977	TOYOTA JIDOSHA KOGYO KABUSHIKI KAISHA, 1, Toyota-cho, Toyota-shi, Aichi-ken, Japan.	2-cycle engine of an active thermoatmosphere combustion type.
152475	22-6-1979	SOUTHWIRE COMPANY, 126 Fertilla Street, Carrollton, Georgia 30117, U.S.A.	Method for heating and melting a non-ferrous metal charge in furnace.
153781	25-1-1980	MOBIL SOLAR ENERGY CORPORATION, 16 Hickory Drive, Waltham, Massachusetts, U.S.A.	Apparatus for and method of growing a crystalline body of silican from a melt.
154501	22-5-1980	Do.	Method of growing a crystalline body of silicon from a silicon melt.

MECH. / ENGG. LIST
NO. II

COMMERCIAL -WORKING OF THE PATENTED INVENTION

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the Statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar Year 1985, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents Commercially may contact the Patentees for the grant of licenses for the purpose.

Patent No.	Date of Patents.	Name and Address of the Patentees.	Title of the Invention.
1	2	3	4
134518	7-2-1972	BURMAH OIL TRADING LIMITED, of Burmah House, 57, Chiswell Street, London EC 1, England.	Improvements in or relating to hydraulic fluids.
134628	16-2-1972	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, of 3 John Street, London W C I N 2ES, England.	Valve means.
134949	15-3-1972	THE GILLETTE COMPANY, at Prudential Tower Building, Boston, Massachusetts, U.S.A.	Improvements in or relating to razor.
134950	15-3-1972	Do.	Disposable razor blade unit.
134951	15-3-1972	Do.	Package for razor blade units
135015	21-3-1972	CANON KABUSHIKI KAISHA, of 30-3, 3-chome, Shimomaruku, Ohta-ku, Tokyo, Japan.	Method of transferring images developed by a liquid developer in electrophotographic process.
135084	28-3-1972	AUTOMOTIVE PRODUCTS, of Tachbrook Road, Leamington Spa, Warwickshire CV31 3ER, England.	Improvements in or relating to friction clutches.
135177	5-4-1972	USS ENGINEERS AND CONSULTANTS at 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method of and apparatus for treating liquid steel.
135186	6-4-1972	Do.	Method of an apparatus for replacing a holder for a pouring tube on a bottom pour-vessel.
135369	26-5-1972	LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, of Great King Street, Birmingham B192XF, England.	Fluid level indicating devices.
135620	21-11-1972	HAROLD GEORGE POOLE, of Aspenden House, Aspenden, Dutingford, Hertfordshire, England.	Improvements in or relating to towing connections.

1	2	3	4
135631	9-10-1972	Robert Bosch G. mb. H. of Postfach 50, 7 Stuttgart 1, West Germany.	Improvements in and relating to fuel injection pump for interval combustion engine.
135712	9-6-1972	Palitex Project. Co. of Weeserweg, 8, 415 Krefeld West Germany.	Scrappig roller.
135836	1-7-1972	PALITEX PROJECT-COMPANY GmbH., of Weeserweg, 8, 415 Krefeld, West Germany.	A spinning or twisting machine especially a double thread twisting machine.
136137	15-3-1972	THE GILLETTE COMPANY, at Prudential Tower Building, Boston, Massachusetts, U.S.A.	Disposable razor blade unit.
136138	15-2-1972	Do.	Razor blade unit.
136186	22-11-1972	GIRLING LIMITED, Kings Road, Tyseley, Birmingham, 11, England.	Break shock adjusters.
136195	25-5-1972	SANDVIK AKTIFBOLAG, Fack, S-81101, Sandviken 1,	Eccentric drill tool.
136205	13-10-1972	DR. C. OTTO & COMP. G. m. B. H. Bachum, West Germany.	Vertical regenerator for horizontal coke ovens.
136241	28-6-1972	BATTELE DEVELOPMENT CORPORATION, 505 King Avenue, Columbus, Ohio, 43201, U.S.A.	Improving flexural strength in fibre containing
136287	29-8-1972	GERARD BLUM, 12 Rue Pont Proviller La Tronchs, Isere, France.	Improvements in the measurement of the area of flat flexible articles.
136331	26-4-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA OF 2-1, Ote-machi, Chiyoda-ku, Tokyo-to, Japan.	Chome Furnace.
136623	27-5-1972	USS ENGINEERS AND CONSULTANTS, at 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Sliding gate closure mechanism for controlling flow of molten metal.
136702	26-6-1972	CANON KABUSHIKI KAISHA of 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, Japan.	Electrophotographic copying machines.
136959	8-5-1973	DR. C. OTTO & COMP. GMBH OF Christstrasse 9, 463, Bochum, West Germany.	Door for horizontal cooking ovens.
136710	4-11-1973	Caterpillar Tractor Co. of 100 N.E. Adams Street, Peoria, Illinois 61602, U.S.A.	Hydraulically powered drive and steering system for track-type vehicle.
136971	2-11-1972	Battelle Development Corporation of 505, King Avenue, Columbus, Ohio 43201, U.S.A.	Concrete structural member.
137093	24-1-1973	ERIK SOLBAECK OF 342, Vedback Strandvaj 2950, Vedback, Denmark.	A machine for producing non-woven nettings.
137263	5-1-1973	CATERPILLAR TRACTOR CO. of 100 N.E. ADAMS STREET, Peoria, State of Illinois 61602, U.S.A.	Gear drive mechanism for excavators.
137264	2-1-1973	GIRLING LIMITED OF Kings Road, Tyseley, Birmingham 11, England.	Improvements relating to automatic adjuster for shoedrum brakes.
137426	9-11-1972	BATTELLE DEVELOPMENT CORPORATION OF 505 King Avenue, Columbus, Ohio 43201, U.S.A.	A method of making reinforced concrete structure or body and structures so made.
137445	27-11-1972	GORDON SMISER LACKY of 529 West Fourth Street, ES Condido, California, U.S.A.	A ball point cartridge assembly.

1	2	3	4
137488	5-1-1973	CATERPILLAR TRACTOR COMPANY of 100 N.E. Adams Street, Peoria, Illinois 61602, U.S.A.	Hydraulic circuitry for an excavator.
137489	5-1-1973	Do.	Swing transmission for excavators.
137500	12-10-1972	C. REICHERT OPTISCHE WERKE, of Postfach 95, Hernalser, Hauptstrasse 219, Vienna, Austria.	Improvements in or relating to a microscope.
137511	12-7-1973	FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIESELISCHAFT, m.b.H., Johannessgasse 3, Vienna 1, Austria.	A mobile arrangement for determining the cross level and condition of railway track.
137544	11-4-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS., of 12 Aual, Henri IV, Cedex 04, 75181, France.	Improvements in or relating to tool holders.
137554	14-9-1973	PALITEX-PROJECT-COMPANY GmbH of Weeserweg B, 415 Krefeld, West Germany.	Double twisting spindle with a twisting arm swivellable in a vertical direction
137559	23-3-1973	CATERPILLAR TRACTOR CO. of 100 N.E. Adams street, city of Peoria, State of Illinois 61602, U.S.A.	Brake control systems.
137575	10-4-1973	HOECHST AKTIENGESSELLSCHAFT, of 6230 Frankfurt/Main 80, Federal Republic of Germany.	Improvements in or relating to heavy media separation of minerals.
137753	16-10-1973	PALITEX PROJECT-COMPANY GmbH. of Weserweg 8, 415, Krefeld, West Germany.	Double twisting spindle.
137786	7-7-1973	R.A. LISTER AND COMPANY LIMITED of Victoria Iron works, Long street, Duralcy Gloucestershire, England.	Lubricating pump.
137838	16-10-1973	PALITEX PROJECT-COMPANY GmbH, of Weeserweg, 8,415 Krefeld, West Germany.	A device for stopping and locking carriage for a servicing device for a twisting machine spooling machine, or the like.
137844	3-1-1973	SULZER BROTHERS LTD. of Winterthur Switzerland.	Steam-generating apparatus.
137855	5-1-1973	CATERPILLAR TRACTOR CO. of 100 N.E. Adams Street, Peoria, Illinois- 61602, U.S.A.	A mounting assembly for slidably supporting a track idler.
137934	27-9-1973	BUREAU BBR LTD. of Riesbachstrasse 57, Zurich, Switzerland.	Apparatus for anchoring wires or stranded wires.
137945	17-2-1973	ERNEST POLLARD of Bank House, Harden Bingley, Yorkshire, England.	Improvements in or relating to drive belting and endless drive belts made therefrom.
137983	18-7-1973	SEAMAN CORPORATION, of R.D.I. Millersburg, in the State of Ohio, U.S.A.	Rigid frame tension fabric structure.
137998	10-11-1972	SANDVIK AKTIEBOLAG OJ FACKS-811 01, Sandviken-1, Sweden	Cutting elements for cutting tools & a method of forming the same.
138088	28-11-1973	FRANZ PLASSER BAGBAUMASCHINEN INDUSTRIESELISCHAFT, M.B.H., Johannessgasse 3, Vienna 1, Austria.	A mobile silo truck, railway wagon and the like.
138116	3-11-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA, of No. 2-1, 2-chome, Ote-hachi, Chiyoda-ku Tokyo-to, Japan.	Rotary kiln apparatus with suspension preheater having burner for calcining.
138192	20-2-1973	ETARLISSEMENTSALGAD, of Vaduz, Liechtenstein.	Explosive projectiles.
138195	11-1-1974	WESTINGHOUSE AIR BRAKE COMPANY of Pittsburg, State of Pennsylvania, U.S.A.	Blending valve device for combining fluid pressure and dynamic brakes.
138221	11-1-1974	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LTD. of 3 John Street, London WC 1N, England.	Brake cylinder release valve apparatus.

1	2	3	4
138249	10-7-1973	FERRANTI LIMITED of Hollinwood, Lancashire England	An inertial guidance system for air craft.
138269	9-1-1974	FRANZ PLASSER BAHBAUMASCHINEN INDUSTRIEGESELLSCHAFT, m.b.H., Johannessgasse 3, Vienna 1, Austria.	Apparatus for tamping and levelling a railway track.
138321	16-4-1974	GIRLING LIMITED OF KINGS ROAD, Tyseley, Birmingham 11, England.	Fluid Pressure brake system.
138353	5-7-1973	AMPLIFORM PTY. LTC. of 95, Collins Street, Melbourne, State of Victoria, Commonwealth of Australia.	Method and apparatus for slotting strip material
138360	17-4-1974	F.L. SMIDT & CO., A/S., of 77 Vigerslev Alle, Copenhagen-Vally, Denmark.	Improvements in plants for burning granular or pulvercus material.
138585	22-3-1973	GIRLING LIMITED of Kings Road, Tyseley, Birmingham 11, England	Improvements in brake adjusters.
138595	28-2-1973	FRANZ PLASSER BAHNBAUMASCINEN INDUSTRIEGESELLSCHAFT m.b.H. of Johannesgasse 3, Vienna 1, Austria.	Improvements relating to mobile machine for distributing and profiling the badding ballast of a railway track.
138681	19-11-1973	GATERPILLAR TRACTOR COMPANY 100 N.E. Adama Street, Peoria, Illinois 61602, U.S.A.	Flat track shoe with tapered and ribs.
138777	3-6-1974	KUMANDUR SRINIVASIYENGAR RANGA- SAMI etc. of Rourkela, 8, Orissa State, INDIA.	Improvements in or relating to double layered braced domes.
138802	3-3-1973	JACQUES HENRY MERCIER of 49 rue de Naples, Paris (8 eme), France.	Improvements in or relating to a pressure vessel.
138918	14-5-1974	SCHUBERT & SALZER MASCHINEN FABRIK AG of 8070, Ingolstadt, Friedrich- Ebert. Strasse, West Germany.	A spinning machine.
138820	14-1-1974	G.D. SOCIETA PER AZIONI OF VIA Pomponia 110, Bologns Italy.	Device for coordinating and feeding separately objects particularly sweets similar to a wrapping machine.
138926	12-3-1973	JACQUES HENRY MERCIER, of 49 rue, de Naples, Paris (8 eme), France.	Pressure vessel.
138990	12-3-1974	WARNER-LAMBERT TECHNOLOGIES INC., of 6373 Stemmons Freeway, Dallas, Texas, U.S.A.	Illumination room system for microscopes.
139073	1-5-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., of Carel Van Bylandtalaan 30, The Hague, The Netherlands.	An atomiser and a process for the partial com- bination of fuel using the atomiser.
139081	10-4-1973	WARNER-LAMBERT TECHNOLOGIES INC., of 6373 Stemmons Freeway, Dallas, Texas, U.S.A.	Microscope forms adjustment mechanism.
139094	17-7-1974	GIRLING LIMITED of Kings Road, Tyseley, Birmingham 11, England.	Improvements in disc-brakes.
139151	25-9-1973	FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIEGESELLSCHAFT m.b.H. Johannessgasse 3, Vienna 1, Austria.	A device for correcting gages of railway track.
139189	18-5-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA OF NO. 2-1, 2-Chome, Ote-Machi, Chiyoda, Tokyo-to, Japan.	Apparatus for burning materials of cement and the like.
139210	6-7-1974	Secim of 107 Boulevard De La Misson Marchand, 92400 Courbevoie, France, and Societe de Vente De L'Aluminium Pechiney of 23 Bis, Rue De Balzac, 75008, Paris, France.	A method and a device for manufacture of a product rolled continuously from.

1	2	3	4
139363	29-2-1974	RCA CORPORATION, of 30, Rockefeller Plaza, New York, New York 10020, U.S.A.	Optical system.
139374	26-6-1974	GIRLING LTD., of Kings Road, Tyseley, Birmingham 11, England.	A control valve assembly for a vehicle and dual circuit braking system.
139488	17-4-1973	Do.	Improvements in and relating to servoboosters for vehicle brake system.
139488	26-6-1974	SIMON CRAVFS LTD., Cheadle Heath Stockportshire, England.	A device for facilitating the discharge of solid particulate material from hopper.
139516	4-5-1973	WARNER-LAMBERT TECHNOLOGIES INC., of 6373 Stemmons Freeway, Dallas, Texas, U.S.A.	Aperture viewing room lens system.
139539	10-8-1973	OOE DENDT RASMUSSEN, 14, Anemonevej, Gentofte, Denmark and Beghin Say of 59239 Thumeries, France.	Net and method of producing same.
139544	20-2-1974	NATIONAL-SOUTHWIRE ALUMINUM COMPANY, of P.O. Box 1000, Carrollton, Georgia 3011, U.S.A.	Method and apparatus for producing metal.
139602	4-6-1974	USS ENGINEERS & CONSULTANTS INC. 600 Grant Street, Pittsburgh State of Pennsyl- vania, U.S.A.	Apparatus for introducing gas to hot metal in a bottom pour vessel.
139547	17-9-1974	SCHUBERT & SALZER MASCHINENFA- RIK AG., of Friedrich-Ebertstrasse 84, 8070 Ingolstadt, West Germany.	Device for opening fibre bales.
139548	5-10-1974	PALITEX PROJECT CO. Weeservweg 8, 415, Krefeld, West Germany.	Antiballooning device for twisting machines.
139646	27-9-1973	WARNER-LANBERT TECHNOLOGIES INC., of 6373 Stemmons Freeway, Dallas, Texas, U.S.A.	Dual turret attachment for a microscope and the like.
139654	19-12-1974	MIDREX CORPORATION, of One NNB Plaza, Charlotte, North Carolina 28280 U.S.A.	Apparatus for cooling a moving bed of solid, gas permeable particles.
139681	11-4-1973	SOCIETE NATIONALE DES POUDERES ET ET EXPLOSIFS, 12, quai Henri IV, Cedex 04, 75181 Paris France.	Milling machine for the machining of parts of a large dimensions in particularly of the blocks of solid propellants.
139682	11-4-1973	Do.	Process and device for machining of the inter- nal duct of a block of solid propellant.
139685	29-6-1973	POLAR CHEMICALS LIMITED, of Lee House, London Wall, London, E.C.2, England.	A method for the removal of deposits from surfaces.
139799	19-7-1973	Establissement Salgad, Vdüz Liechtenstein.	Light mortar for fin stabilised projectiles.
139805	4-3-1974	OUTOKUMPU OY, Outokumpu, Finland.	An intra-uterine contraceptive device.
139812	5-12-1973	FIRLING LTD., Kings Road, Tyseley, Birmingham 11, England	Improvements in transmission members and hydraulic actuators incorporating said transmissions member.
139916	20-10-1973	IMS. LTD., of 1886, Santa Anita Avenue, South El Monte, California, 91733, U.S.A.	A fluid transfer device.
139860	4-4-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh Pennsylvania, U.S.A.	Improvement system for turbine speed con- trolling valve operation.
139945	24-8-1973	CRAWFORD BROWN MURTON, of Pittsburgh, Pennsylvania, 15221, U.S.A.	A method of applying a refractory lining to a metallurgical vessel and metallurgical vessel so produced and composition used in the same.
139955	18-10-1973	BICC (BRITISH INSULATED CABLES LTD., BLOOMSBURY street, London WC, 3 QH, England.	Wire drawing machinery.

CHEMICAL ENGG
LIST—III

COMMERCIAL WORKING PATENTED INVENTIONS

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calendar year 1984-85 generally on account of want of request for Licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a Licence for the purpose :—

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
139301	26-3-1973	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marge, New Delhi-1, India.	A process for production of sponge iron.
139383	26-9-1974	Do.	Improvements in or relating to Calcium tung-
140310	13-9-1973	Do.	Process for making sodium hydrosulphide, state like phosphor of different shades.
140627	15-12-1975	Do.	Improvements in or relating to removal of phosphorus and iron from fluorspar.
142032	11-2-1974	Do.	A process and apparatus for production of hot reducing gases for the reduction of oxide ores such as iron ore into sponge iron.
143334	19-11-1975	Do.	Process for the extraction of nickel and cobalt values from alaterific and limonetic nickel-ferrous ores.
143829	24-2-1976	Do.	Improvements in or relating to electro-thermal smelting of lead from lead sulphide concentrates.
144197	21-12-1976	Do.	A process for treating industrial sludge containing chromium from bichromate sludge.
146264	22-9-1977	Do.	Method and apparatus relating to the production of cellular metal.
146912	12-8-1977	Do.	Improved process for the manufacture of carbon fibres from poly acrylonitrile fibres.
147616	19-10-1977	Do.	Improved process for the manufacture of moulded carbon articles.
148140	22-8-1978	Do.	A process for the production of austenitic stainless steel free of nitrogen.
148202	19-7-1978	Do.	An improved process for the desulphurisation of ferrous melts in the iron and steel industry.
148567	19-7-1978	Do.	Production of oil well cement additives.
150416	31-12-1979	Do.	Preparation of water displacing rust preventive oil for protection of metal from corrosion.
150466	19-12-1978	Do.	A process for the microbial recovery of copper from copper ores.
151036	25-1-1981	Do.	A process for the preparation of ammonia vanadate from vanadium bearing sludge of alumina plant by liquid ion exchange method.
151200	13-7-1978	Do.	Process for the preparation of 2-hydroxy trypta-mine mono-hydrochloride.
151201	13-7-1978	Do.	Process for the preparation of dimethyl-4-ethyl-4-formyl pimelate.
151657	5-8-1980	Do.	Improved process for the production of dini-troso Penta-methylene tetramine.
152242	5-6-1979	Do.	An improved process for purification of low grade molybdenite.

RENEWAL FEES PAID

138676	139238	139389	139941	140449	140671	141086
141387	141980	142097	142145	142225	142472	142636
143011	143315	143523	143665	143673	143802	143834
143835	143905	144027	144046	144620	144724	144818
144857	144866	144870	145245	145307	145621	145689
146229	146432	146444	147178	147318	147540	147555
147710	148213	148219	148240	148488	148514	149554
149565	149588	149817	149888	150089	150144	150381
150508	150561	150952	150959	150990	151048	151051
151052	151204	151408	151669	151688	151835	151889
151946	152026	152037	152089	152094	152195	152220
152293	152346	152347	152356	152368	152407	152624
152626	152732	152757	152899	152910	152942	152949
153034	153148	153218	153265	153349	153499	153617
153620	153650	153651	153916	153962	154019	154095
154208	154492	154545	154601	154659	154684	154741
154821	154995	155229	155407	155429	155582	155872
155908	156006	156017	156109	156123	156237	156438
156482	156483	156487	156491	156492	156493	156495
156498	156499	156500	156501	156507	156508	156511
156512	156515	156517	156518	156522	156525	156528
156530	156533	156553	156559	156596	156597	156599
156600	156601	156603	156611	156636	156654	156802
157048	157049	157050	157053	157126	157311	157312
157315	157320	157322	157330	157338	157339	157349
157359	157361	157365	157366	157381	157387	157384.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157777. Saurashtra Manufacturing Corporation, C-79, Mayapuri, New Delhi-110 064, India, an Indian Partnership concern. "Scraper Strips for ice Cream Machine". 15th December, 1986.

Class 3. No. 157740. A Australian Telecommunications Commission, a body corporate established under the Telecommunications Act 1975, of 199 William Street, Melbourne, in the State of Victoria, Commonwealth of Australia. "A Telephone". 2nd December, 1986.

Class 3. No. 157742. Plastella (a registered Partnership firm) of 91-Swami Vivekanand Road, Borivli (West) Bombay-400 092, State of Maharashtra, India. "COMB". 3rd December, 1986.

Class 3. No. 157800. Milton Plastics, a registered Indian Partnership Firm, registered under the Indian Partnership Act, 1932, having Office at 202/203, 'Raheja Centre', 214, Nariman Point, Bombay-400 021, Maharashtra, India. "Planter". 24th December, 1986.

Class 3. No. 157813. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India, an Indian Partnership Firm. "Jewellery Box". 24th December, 1986.

Class 3. No. 157815. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India, an Indian Partnership Firm. "Key Tag". 24th December, 1986.

Class 3. No. 157830. Wimco Pen Company, 11, Mehta Industrial Estate, 1st floor, I. B. Patel Road, Goregaon (East), Bombay-400 063, Maharashtra, India, an Indian Partnership Firm. "Tiffin Carrier". 31st December, 1986.

Class 3. No. 157831. Cosmic Marketing Service India Private Limited, 5, Anjali Apartments, Ramkrishna Mission Marg, 14B, Road, Khar, Bombay-400 052, Maharashtra, India, a private limited company incorporated under the Indian Companies Act. "Road Mark". 31st December, 1986.

Class 5. No. 157741. GTC Industries Limited, (a Company incorporated under the provisions of Indian Companies Act) at Tobacco House, Vile Parle, Bombay-400 056, Maharashtra State, India. "Cigarette Packet". 3rd December, 1986.

Extn. of Copyright for the Second period of five years.

Nos. 151093 151099 151100 151101 151102 Class-1.

No. 151137 Class-3.

R. A. ACHARYA
Controller General of Patents, Designs
and Trade Marks.

